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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,724	10/18/2006	Matthew Graeme Dunckley	87792.026005	8410
26158 7590 07/28/2008 WOMBLE CARLYLE SANDRIDGE & RICE, PLLC ATTN: PATENT DOCKETING 32ND FLOOR P.O. BOX 7037 ATLANTA, GA 30357-0037			EXAMINER	
			ZARA, JANE J	
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			1635	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/524,724	DUNCKLEY ET AL.		
Office Action Summary	Examiner	Art Unit		
	Jane Zara	1635		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	L. viely filed the mailing date of this communication.		
Status				
Responsive to communication(s) filed on 16 Fe This action is FINAL . 2b) ☐ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-21,23,26-38,40-44,46,47,49 and 53 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-21, 23, 26-38, 40-44, 46, 47, 49, 53 Application Papers 9) ☐ The specification is objected to by the Examine	wn from consideration. -60 are subject to restriction and/	or election requirement.		
10) The drawing(s) filed on is/are: a) accomplicated any accomplication and request that any objection to the Replacement drawing sheet(s) including the correct accomplication of the contract of the contract and the contract of the	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-21, 60, drawn to host cells, compositions and vectors comprising nucleic acids.

Group II, claim(s) 23, 26-29, 50 drawn to a method of recruiting an RNA processing or translation factor.

Group III, claim(s) 30, 31, 33-37, drawn to methods of increasing the level of splicing at a specific splice site.

Group IV, claim(s) 32, drawn to a method of increasing the level of incorporation of a specific exon in a pre-mRNA species.

Group V, claim(s) 38, 40-43, drawn to methods of treating a condition characterized by defective RNA splicing in a subject.

Group VI, claim(s) 44, 46, 53, drawn to methods of treating a condition characterized by defective translation of an RNA species in a subject.

Group VII, claim(s) 47, 49, drawn to methods of enhancing polyadenylation.

Group VIII, claim(s) 54, drawn to methods of affecting RNA processing or translation.

Group IX, claim(s) 55-59, drawn to methods of designing and making a nucleic acid molecule that affects RNA processing or translation.

The inventions listed as Groups I-IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Claims 3-8, 12, 23, 29-33, 40, 41, 44, 46, 47, 49, all of which are encompassed by claims 1-21, 23, 26-38, 40-44, 46, 47, 49, 53-60, are drawn to a plurality of target genes, first and second domain binding pair targets, RNA processing or translation, all of which are set forth in improper Markush groupings. Therefore, this application does not comply with the requirements for unity of invention (Rules 13.1, 13.2 and 13.3) for the following reasons:

According to the guidelines in section (f)(i)(a) of annex B of the PCT

Administrative Instruction, the special technical feature as defined by PCT Rule 13.2 shall be considered to be met when all the alternatives of a Markush group are of similar nature. For chemical alternatives, such as the claimed first and second domain targets, RNA processing, translation or polyadenylation, the Markush groups shall be regarded as being of similar nature when (A) all alternatives have common property or activity AND (B)(1) a common structure is present, i.e., a significant structure is shared by all the alternatives OR (B)(2) in cases where the common structure cannot be the unifying criteria, all alternatives belong to an art recognized class of compounds in the art to which the invention pertains.

The instant agents, first and second domain targets, therapeutic agents, processes involving RNA, etc. set forth in and/or encompassed by claims 1-60 are considered to be each separate inventions for the following reasons:

The different sequences, domain molecules, targets, structures, and RNA processes do not meet the criteria of (A), common property or activity or (B)(2), art recognized class of compounds. In the instant case, the different domains and their

respective targets and sequences are structurally and chemically and biologically different and distinct, and the different domains and the different RNA processes target a different and specific region of a target gene, or modulate the expression of that gene to varying degrees. Each member of the class cannot be substituted one for the other with the expectation that the same intended result would be achieved.

Further, the different Groups of compounds and nucleic acid targets, domains and processing constructs do not meet the criteria of (B)(1) as they do not share, one with another, a common core structure. Accordingly, unity of invention between the instant domains and respective target sequences is lacking and each domain and target claimed is considered to constitute a special technical feature.

Applicant is therefore advised to elect a <u>single</u> target gene, first and second domain, RNA process, and therapeutic with the corresponding elected Group.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of

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record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Conclusion

Certain papers related to this application may be submitted to Art Unit 1635 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. ' 1.6(d)). The official fax telephone number for the Group is 571-273-8300. NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jane Zara whose telephone number is (571) 272-0765. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Douglas Schultz, can be reached on (571) 272-0763. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jane Zara 7-24-08

/Jane Zara/ Primary Examiner, Art Unit 1635